



Experiment title: Crystal structure determination of one organic and two inorganic compounds using high-resolution powder diffraction data.

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Report:

In this session some organic, organo-metallic and inorganic powders were measured. The structure of $C_{37}H_{40}N_2OCIRh$ is solved and refined. Hopefully, we can measure and solve in the near future some derivatives of this compound. These structures will be published all together.

The structure of $C_{23}H_{27}N_2O_3Co$ is solved, but refinement is difficult. Since the powder has a poor crystallinity, the refinement is not yet completed.

The structure of the heavy-atom compound $Pr_4Ge_3S_{12}$ is solved, but the refinement is difficult. Since the compound has high absorption, the refinement could not yet be completed.

The cell parameters of the compound $[C_{14}N_2][C_{12}N_2O_4]$ (H-atoms omitted) are determined, but the structure is not yet solved. Attempts are still being made to solve this structure.

Also for $C_{28}N_2O_8$ (H-atoms omitted) only the cell parameters are determined. Nevertheless, we are still trying to solve the structure of this compound.

An unknown organic compound (around 20 non-H atoms) was measured also. The cell parameters and space group could be (re-)determined, but the structure is not yet solved.